

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P296064

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-60-UNV-L92765-W2A1-U-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5679.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

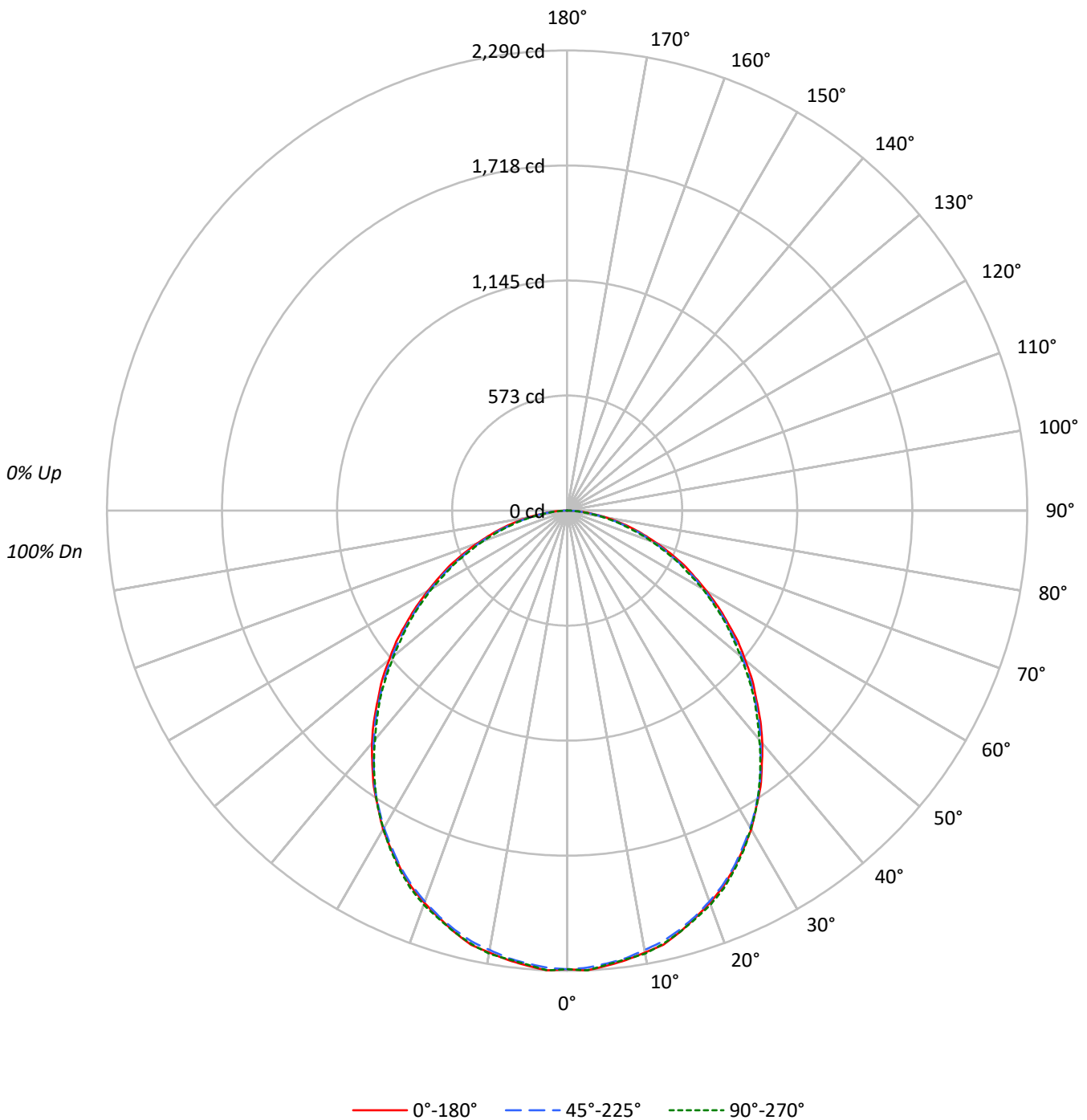
Input Watts (W): 44.547  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3071	3071	3071
5°	3071	3056	3063
10°	3051	3034	3059
15°	3024	3009	3024
20°	2975	2964	2988
25°	2916	2910	2927
30°	2846	2832	2841
35°	2757	2745	2738
40°	2655	2629	2613
45°	2534	2510	2500
50°	2420	2381	2355
55°	2291	2256	2235
60°	2154	2115	2090
65°	2036	1960	1942
70°	1867	1795	1758
75°	1714	1609	1543
80°	1505	1406	1320
85°	1216	1132	962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.4	3.8
10°-20°	610.6	10.8
20°-30°	903.2	15.9
30°-40°	1042.4	18.4
40°-50°	1018.1	17.9
50°-60°	859.7	15.1
60°-70°	612.4	10.8
70°-80°	331.6	5.8
80°-90°	85.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1729.2	30.4
0°-40°	2771.6	48.8
0°-60°	4649.5	81.9
0°-90°	5679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2274	2274	2263	2268	2268	216
15°	2171	2162	2160	2169	2171	612
25°	1964	1953	1960	1968	1971	904
35°	1678	1665	1671	1665	1667	1047
45°	1332	1321	1319	1314	1314	1030
55°	976	964	962	953	953	875
65°	639	627	616	608	610	630
75°	330	319	310	302	297	349
85°	79	77	73	64	62	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2282.8	2282.8	2282.8	2282.8	2282.8
2.5°	2290.1	2281.0	2277.3	2279.1	2290.1
5°	2273.6	2273.6	2262.6	2268.1	2268.1
7.5°	2255.3	2257.1	2246.2	2255.3	2251.7
10°	2233.3	2227.8	2220.5	2235.2	2238.8
12.5°	2213.2	2200.4	2196.7	2205.8	2207.7
15°	2171.0	2161.9	2160.0	2169.2	2171.0
17.5°	2123.4	2125.2	2117.9	2130.7	2128.9
20°	2077.6	2073.9	2070.3	2084.9	2086.8
22.5°	2026.3	2015.3	2019.0	2031.8	2035.5
25°	1964.0	1953.0	1960.3	1967.7	1971.3
27.5°	1898.1	1892.6	1890.7	1899.9	1903.6
30°	1832.1	1822.9	1822.9	1833.9	1828.4
32.5°	1751.5	1744.2	1747.8	1751.5	1753.3
35°	1678.2	1665.4	1670.9	1665.4	1667.2
37.5°	1592.1	1582.9	1581.1	1579.3	1579.3
40°	1511.5	1504.2	1496.8	1496.8	1487.7
42.5°	1423.5	1414.4	1410.7	1405.2	1399.7
45°	1331.9	1320.9	1319.1	1313.6	1313.6
47.5°	1249.5	1233.0	1231.2	1220.2	1220.2
50°	1156.1	1145.1	1137.7	1130.4	1124.9
52.5°	1071.8	1060.8	1049.8	1042.5	1037.0
55°	976.5	963.7	961.9	952.7	952.7
57.5°	890.4	879.4	872.1	861.1	862.9
60°	800.6	789.6	786.0	776.8	776.8
62.5°	716.4	707.2	701.7	692.5	685.2
65°	639.4	626.6	615.6	608.3	610.1
67.5°	555.1	540.5	535.0	527.6	522.1
70°	474.5	465.4	456.2	447.0	447.0
72.5°	399.4	390.2	384.7	373.7	370.1
75°	329.8	318.8	309.6	302.3	296.8
77.5°	260.2	249.2	243.7	234.5	234.5
80°	194.2	186.9	181.4	177.7	170.4
82.5°	133.7	130.1	124.6	119.1	113.6
85°	78.8	76.9	73.3	64.1	62.3
87.5°	31.1	31.1	27.5	25.6	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)